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- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- DiNardo (ed.), *Anesthesia for Cardiac Surgery, 2nd edition* (EM) [Nielsen], 1302
- hyperprolactinemia in patients with noninfectious SIRS and pulmonary dysfunction associated with cardiopulmonary bypass (CI) [Hensel et al.], 93
- intraoperative awareness in fast-track cardiac anesthesia (CI) [Dowd et al.], 1068
- perforation of the right ventricle with a coronary sinus catheter during preparation for minimally invasive cardiac surgery (CR) [Abramson et al.], 519
- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- replacement of air by carbon dioxide (CO) [O'Brien], 1036, [Rosen], 1036
- Cardiomyocytes**
- differential effects of fentanyl and morphine on intracellular Ca²⁺ transients and contraction in rat ventricular myocytes (LI) [Kanay et al.], 1532
- thiopental alters contraction, intracellular Ca²⁺, and pH in rat ventricular myocytes (LI) [Kanaya et al.], 202
- Cardiomyopathy**
- cardiovascular effects of xenon in isoflurane-anesthetized dogs with dilated cardiomyopathy (LI) [Hettrick et al.], 1166
- dexmedetomidine produces similar alterations in the determinants of left ventricular afterload in conscious dogs before and after the development of pacing-induced cardiomyopathy (LI) [Pagel et al.], 741
- myocardial effects of desflurane in hamsters with hypertrophic cardiomyopathy (LI) [Vivien et al.], 1191
- Cardioplegia**
- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- Cardioprotection**
- magnesium and cardiovascular disease (MI) [Gomez], 222
- Cardiopulmonary bypass**
- acute depression of myocardial β -adrenergic receptor signaling during cardiopulmonary bypass: impairment of the adenylate cyclase moiety (CI) [Booth et al.], 602
- choice of α -stat or pH-stat management and neurologic outcomes after cardiac surgery: it depends (EV) [Hindman], 5
- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- differential immediate-early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest (LI) [Bokesch et al.], 961
- emergent cardiopulmonary bypass in five patients with heparin-induced thrombocytopenia type II employing recombinant hirudin (CR) [Koster et al.], 777
- hypercapnia prevents jugular bulb desaturation during rewarming from hypothermic cardiopulmonary bypass (CI) [Hänel et al.], 19
- hyperprolactinemia in patients with noninfectious SIRS and pulmonary dysfunction associated with cardiopulmonary bypass (CI) [Hensel et al.], 93
- jugular venous hemoglobin desaturation during rewarming on cardiopulmonary bypass: what does it mean, what does it matter? (EV) [Hindman], 3
- left ventricular thrombi: intraoperative detection by transesophageal echocardiography and recognition of a source of post CABG embolic stroke: a case series (CR) [Maslow et al.], 1257
- nitric oxide inhibits neutrophil adhesion during experimental extracorporeal circulation (LI) [Chello et al.], 443
- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- Cardiopulmonary resuscitation**
- cardiac massage: a method rescued from oblivion (SA) [Juvin and J-M Desmonts], 771
- spontaneous recovery after discontinuation of intraoperative cardiopulmonary resuscitation: case report (CR) [Frölich], 1252

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- adenosine-induced transient cardiac arrest for placement of endovascular stent-grafts in the thoracic aorta (CO) [Kahn et al.], 1038, [Weigand et al.], 1037
- anesthesia safety, outcomes, and prospective study design (CO) [Price and Carpenter], 790, [Auroy et al.], 791
- atelectasis and gas exchange after cardiac surgery (CI) [Tenling et al.], 371
- combined use of transesophageal echocardiography and basket catheter can prevent tumor embolism in a patient with renal cell carcinoma (CR) [Tanaka et al.], 1015
- comparison of left ventricular performance indices measured by transesophageal echocardiography with automated border detection (CI) [Declerk et al.], 341
- concentration-response relationships for fentanyl and sufentanil in patients undergoing coronary artery bypass grafting (CI) [Thomson et al.], 852
- early hemodynamic changes following emergency mitral valve replacement for traumatic mitral insufficiency following balloon mitral valvotomy: report of six cases (CR) [Tempe et al.], 1583
- emergent cardiopulmonary bypass in five patients with heparin-induced thrombocytopenia type II employing recombinant hirudin (CR) [Koster et al.], 777
- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- external chest wall stimulation to suppress a permanent transvenous pacemaker in a patient during endovascular stent graft placement (CR) [Moskowitz et al.], 531
- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- intraoperative awareness in fast-track cardiac anesthesia (CI) [Dowd et al.], 1068
- intraoperative determination of cardiac output using multiplane transesophageal echocardiography: a comparison to thermodilution (CI) [Perrino et al.], 350
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- no evidence of ischemic preconditioning during coronary revascularization (CO) [Lennon], 1601
- perforation of the right ventricle with a coronary sinus catheter during preparation for minimally invasive cardiac surgery (CR) [Abramson et al.], 519
- perfuse or precondition? (CO) [Borges and Coulson], 1600
- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418

severe hypercapnia induced by acute dissecting aortic aneurysm (CR) [Lenfant et al.], 780

spontaneous recovery after discontinuation of intraoperative cardiopulmonary resuscitation: case report (CR) [Frölich], 1252

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- cardiovascular effects of xenon in isoflurane-anesthetized dogs with dilated cardiomyopathy (LI) [Hetttrick et al.], 1166
- jugular venous hemoglobin desaturation during rewarming on cardiopulmonary bypass: what does it mean, what does it matter? (EV) [Hindman], 3
- magnesium and cardiovascular disease (MI) [Gomez], 222
- predicting long-term postoperative cardiovascular outcomes (CO) [Litwack and DeGruttola], 1286, [Badner and Gelb], 1287, [Mangano], 1288

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- does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al.], 1089
- external chest wall stimulation to suppress a permanent transvenous pacemaker in a patient during endovascular stent graft placement (CR) [Moskowitz et al.], 531

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- a devastating complication of inadvertent carotid artery puncture (CR) [Heath et al.], 1273

Carotid endarterectomy

- prospective, randomized comparison of deep or superficial cervical plexus block for carotid endarterectomy surgery (CI) [Stoneham et al.], 907

Catecholamines

- β -adrenergic blockade accelerates conversion of postoperative supraventricular tachyarrhythmias (CI) [Balser et al.], 1052
- dobutamine antagonizes epinephrine's biochemical and cardiotoxic effects: results of an *in vitro* model using human lymphocytes and a clinical study in patients recovering from cardiac surgery (CI) [Prielipp et al.], 49
- isoflurane and sevoflurane augment norepinephrine responses to surgical noxious stimulation in humans (CI) [Segawa et al.], 1407
- myocardial effects of desflurane in hamsters with hypertrophic cardiomyopathy (LI) [Vivien et al.], 1191
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- Tamburini (ed.), *Quality of Life Assessment in Medicine. A CD-ROM for Windows, Issue 2* (EM) [Raja and Haythornthwaite], 1043
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- complex regional pain syndrome type II as a complication of subclavian catheter insertion (CO) [Burton et al.], 804

- a devastating complication of inadvertent carotid artery puncture (CR) [Heath et al.], 1273
- perforation of the right ventricle with a coronary sinus catheter during preparation for minimally invasive cardiac surgery (CR) [Abramson et al.], 519
- severe anaphylactic reaction due to a chlorhexidine-impregnated central venous catheter (CO) [Terazawa et al.], 1296
- Centroneuraxial blockade**
- local addition of tenoxicam reduces the incidence of low back pain after lumbar epidural anesthesia (CI) [Wang et al.], 1414
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- Cerebral blood flow**
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- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- hypercapnia prevents jugular bulb desaturation during rewarming from hypothermic cardiopulmonary bypass (CI) [Hänel et al.], 19
- impact of systemic vasoconstrictors on the cerebral circulation of anesthetized patients (CI) [Strebel et al.], 67
- isoflurane and sevoflurane induce vasodilation of cerebral vessels *via* ATP-sensitive K⁺ channel activation (LI) [Iida et al.], 954
- local cerebral blood flow, local cerebral glucose utilization and flow-metabolism coupling during sevoflurane *versus* isoflurane anesthesia in rats (LI) [Lenz et al.], 1480
- Cerebral ischemia/anoxia**
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- choice of α -stat or pH-stat management and neurologic outcomes after cardiac surgery: it depends (EV) [Hindman], 5
- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- differential effects of anesthetic agents on outcome from near-complete but not incomplete global ischemia in the rat (LI) [Miura et al.], 391
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- local cerebral blood flow, local cerebral glucose utilization and flow-metabolism coupling during sevoflurane *versus* isoflurane anesthesia in rats (LI) [Lenz et al.], 1480
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- Cervical plexus blocks**
- prospective, randomized comparison of deep or superficial cervical plexus block for carotid endarterectomy surgery (CI) [Stoneham et al.], 907
- Cervical spine movement**
- emergent airway management at a remote hospital location in a patient wearing a halo traction device (CO) [Cohn et al.], 545
- massive pyramidal tract signs after endotracheal intubation: a case report of spondyloepiphyseal dysplasia congenita (CR) [Redl], 1262
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- bupivacaine 0.01% and/or epinephrine 0.5 μ g/ml improve epidural fentanyl analgesia after cesarean section (CI) [Cohen et al.], 1354
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- EXIT procedure facilitates delivery of an infant with a pretracheal teratoma (CR) [Shih et al.], 1573
- obstetric anesthesia 1988-1996 in Northrhine/Germany: results of the perinatal survey at the chambers of physicians (CO) [Josten et al.], 1288
- randomized study of combined spinal-epidural analgesia *versus* intravenous meperidine during labor: impact on cesarean delivery rate (CI) [Gambling et al.], 1336
- secretion of dantrolene into breast milk after acute therapy of a suspected malignant hyperthermia crisis during cesarean section (CR) [Fricker et al.], 1023
- treatment of pulmonary embolism during cesarean section with recombinant tissue plasminogen activator (CR) [Nishimura et al.], 1027
- c-fos**
- differential immediate-early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest (LI) [Bokesch et al.], 961
- Chemistry**
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174
- mechanistic aspects of carbon monoxide formation from volatile anesthetics (LI) [Baxter et al.], 929
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- cerebrospinal fluid pharmacokinetics and pharmacodynamics of intrathecal neostigmine methylsulfate in humans (CI) [Shafer et al.], 1074
- inhibition of the enzymic degradation of suxamethonium and mivacurium increases the onset time of submaximal neuromuscular block (LI) [Beaufort et al.], 707
- intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493

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comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110

differential immediate-early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest (LI) [Bokesch et al.], 961

Circulatory physiology and hemodynamics

acute depression of myocardial β -adrenergic receptor signaling during cardiopulmonary bypass: impairment of the adenylyl cyclase moiety (CI) [Booth et al.], 602

blood volume measurement: the next intraoperative monitor? (EV) [Barker], 1310

blood volume measurement at the bedside using ICG pulse spectrophotometry (CI) [Haruna et al.], 1322

cardiovascular effects of xenon in isoflurane-anesthetized dogs with dilated cardiomyopathy (LI) [Hettrick et al.], 1166

comparison of left ventricular performance indices measured by transesophageal echocardiography with automated border detection (CI) [Declerk et al.], 341

dexmedetomidine produces similar alterations in the determinants of left ventricular afterload in conscious dogs before and after the development of pacing-induced cardiomyopathy (LI) [Papel et al.], 741

early hemodynamic changes following emergency mitral valve replacement for traumatic mitral insufficiency following balloon mitral valvotomy: report of six cases (CR) [Tempe et al.], 1583

effect of various lithotomy positions on lower-extremity blood pressure (CI) [Halliwill et al.], 1373

effects of intraabdominally insufflated carbon dioxide and elevated intraabdominal pressure on splanchnic circulation: an experimental study in pigs (LI) [Blobner et al.], 475

effects of respiratory alkalosis and acidosis on myocardial blood flow and metabolism in patients with coronary artery disease (CI) [Kazmaier et al.], 831

improvement in extreme hypoxemia during end-stage congenital heart disease using nasal nitric oxide (CR) [Cholley et al.], 1586

isoflurane and sevoflurane augment norepinephrine responses to surgical noxious stimulation in humans (CI) [Segawa et al.], 1407

preservation of hypoxic pulmonary vasoconstriction during sevoflurane and desflurane anesthesia compared to the conscious state in chronically instrumented dogs (LI) [Lesitsky et al.], 1501

propofol-induced increase in vascular capacitance is due to inhibition of sympathetic vasoconstrictive activity (LI) [Hoka et al.], 1495

systolic pressure variation as a guide to fluid therapy in patients with sepsis-induced hypotension (CI) [Tavernier et al.], 1313

transmural pressure of epidural veins in the thoracic and lumbar spine of pigs (LI) [Nystrom et al.], 449

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Cisatracurium

comparative clinical pharmacology of rocuronium, cisatracurium, and their combination (CI) [Naguib et al.], 1116

high concentration cisatracurium ICU solution (CO) [Nishio et al.], 1605

Clinical trials

efficacy and costs of patient-controlled analgesia *versus* regularly administered intramuscular opioid therapy (CI) [Choinière et al.], 1377

epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585

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intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493

intravenous regional clonidine in the management of sympathetically maintained pain (CR) [Reuben et al.], 527

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anesthesia safety, outcomes, and prospective study design (CO) [Price and Carpenter], 790, [Auroy et al.], 791

bronchospasm and "reflex right upper lobe atelectasis" (CO) [Sprung et al.], 803

complex regional pain syndrome type II as a complication of subclavian catheter insertion (CO) [Burton et al.], 804

complication of Bullard laryngoscope: dislodgement of tip-extender resulting in an upper airway foreign body (CO) [Marshall and James], 1604

a devastating complication of inadvertent carotid artery puncture (CR) [Heath et al.], 1273

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effect of various lithotomy positions on lower-extremity blood pressure (CI) [Halliwill et al.], 1373

- effects of mild perioperative hypothermia on cellular immune responses (CI) [Beilin et al.], 1133
- electrical fires in Hewlett-Packard monitors due to saline contamination (CR) [Reynolds et al.], 521
- fatal pulmonary fat embolism in early postoperative period (CR) [Heine et al.], 1589
- foreign body in the trachea originated from the inner wall of the univent tube (CO) [Harioka et al.], 1596
- general anesthesia for a patient with centronuclear (myotubular) myopathy (CR) [Gottschalk et al.], 1018
- heart rate variability during chemical thoracic sympathectomy (CI) [Hirose et al.], 666
- incompatibility of propofol emulsion with anesthetic drugs (CO) [Lamontagne et al.], 1609
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- left ventricular thrombi: intraoperative detection by transesophageal echocardiography and recognition of a source of post CABG embolic stroke: a case series (CR) [Maslow et al.], 1257
- local addition of tenoxicam reduces the incidence of low back pain after lumbar epidural anesthesia (CI) [Wang et al.], 1414
- massive pyramidal tract signs after endotracheal intubation: a case report of spondyloepiphyseal dysplasia congenita (CR) [Redl], 1262
- metallic mercury leak from the esophageal bougy and postoperative chest pain (CO) [Taylor and Kamaya], 548
- multicenter study of contaminated percutaneous injuries in anesthesia personnel (CI) [Greene et al.], 1362
- neurologic symptom associated with a repeated injection after failed spinal anesthesia (CO) [Hirabayashi et al.], 1294
- oral ketamine for the management of combative autistic adult (CO) [Bachenberg], 549
- perforation of the right ventricle with a coronary sinus catheter during preparation for minimally invasive cardiac surgery (CR) [Abramson et al.], 519
- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- pneumothorax during endoscopic extraperitoneal herniorrhaphy (CO) [Toyoshima et al.], 1040
- postoperative acetaminophen and warfarin: undesirable combination (CO) [Elias], 1296
- postoperative lactic acidosis in patients receiving metformin (CO) [Lustik et al.], 266
- potential cause for medication administration error (CO) [Donahue and Needleman], 800
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- prevalence of latex allergy among anesthesiologists: identification of sensitized but asymptomatic individuals (CI) [Brown et al.], 292
- prolonged loss of consciousness and elevated porphyrins following propofol administrations (CR) [Asirvatham et al.], 1029
- proposal for new temperature monitoring and thermal management guidelines (CO) [Sessler], 1298
- prospective, randomized comparison of deep or superficial cervical plexus block for carotid endarterectomy surgery (CI) [Stoneham et al.], 907
- pulse oximetry probe adhesive disks: a potential for infant aspiration (CO) [Reddy and Cook-Sather], 1603
- severe anaphylactic reaction due to a chlorhexidine-impregnated central venous catheter (CO) [Terazawa et al.], 1296
- small doses of sufentanil will produce violent coughing in young children (CO) [Yemen], 271, [Bennett et al.], 272
- source of epidural infection following epidural analgesia identified by pulsed-field gel electrophoresis (CR) [Sakuragi et al.], 1254
- specific therapies of biguanide-induced lactic acidosis (CO) [Preiser and Vincent], 267, [Wulf et al.], 267, [Wulf et al.], 267
- spontaneous recovery after discontinuation of intraoperative cardiopulmonary resuscitation: case report (CR) [Frölich], 1252
- Streptococcus salivarius* meningitis after spinal anesthesia (CR) [Laurila et al.], 1579
- tension pneumothorax during apnea testing for the determination of brain death (CR) [Bar-Joseph et al.], 1250
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- transfusion-related acute lung injury (TRALI) complicating colectomy for ulcerative colitis (CR) [Keifer et al.], 1020
- transient neurologic symptoms after spinal anesthesia: an epidemiologic study of 1,863 patients (CI) [Freedman et al.], 633
- transient neurologic symptoms when phenylephrine is added to tetracaine spinal anesthesia—an alternative (CO) [Lambert], 274, [Sakura and Drasner], 274, [Rowlingson], 275
- unusual cause of intravenous catheter obstruction (CO) [Stone and Leon], 276
- use of a guide wire to facilitate tracheal intubation with the Bullard laryngoscope (CO) [Ringwalt], 805
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- effects of sevoflurane and isoflurane on renal function and on possible markers of nephrotoxicity (CI) [Higuchi et al.], 307
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopyurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174
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- atelectasis and gas exchange after cardiac surgery (CI) [Tenling et al.], 371
- Computers**
- medical information on the Internet (SA) [Rampil], 1233
- Congenital heart disease**
- improvement in extreme hypoxemia during end-stage congenital heart disease using nasal nitric oxide (CR) [Cholley et al.], 1586
- Continuous infusion**
- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418
- Contrast echocardiography**
- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- Cooperative management**
- combined use of transesophageal echocardiography and basket catheter can prevent tumor embolism in a patient with renal cell carcinoma (CR) [Tanaka et al.], 1015

Coronary artery bypass grafting

- concentration-response relationships for fentanyl and sufentanil in patients undergoing coronary artery bypass grafting (CI) [Thomson et al.], 852
- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- left ventricular thrombi: intraoperative detection by transesophageal echocardiography and recognition of a source of post CABG embolic stroke: a case series (CR) [Maslow et al.], 1257
- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418

Coronary artery disease

- effects of respiratory alkalosis and acidosis on myocardial blood flow and metabolism in patients with coronary artery disease (CI) [Kazmaier et al.], 831

Coronary circulation

- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- isoflurane-induced dilation of porcine coronary arterioles is mediated by ATP-sensitive potassium channels (LI) [Zhou et al.], 182
- volatile anesthetics do not alter bradykinin-induced release of nitric oxide or L-citrulline in crystalloid perfused guinea pig hearts (LI) [Fujita et al.], 421

Crisis management

- assessment of clinical performance during simulated crises using both technical and behavioral ratings (CI) [Gaba et al.], 8

Critical care

- Abrams and Grande (eds.), *Trauma Anesthesia and Critical Care of Neurological Injury* (EM) [Pittet], 1301
- additive effect of nitric oxide inhalation on the oxygenation benefit of the prone position in the adult respiratory distress syndrome (CI) [Germann et al.], 1401
- β -adrenergic blockade accelerates conversion of postoperative supraventricular tachyarrhythmias (CI) [Balser et al.], 1052
- blood volume measurement: the next intraoperative monitor? (EV) [Barker], 1310
- blood volume measurement at the bedside using ICG pulse spectrophotometry (CI) [Haruna et al.], 1322
- does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al.], 1089
- high concentration cisatracurium ICU solution (CO) [Nishio et al.], 1605
- improvement in extreme hypoxemia during end-stage congenital heart disease using nasal nitric oxide (CR) [Cholley et al.], 1586
- inhaled nitric oxide, almitrine infusion, or their coadministration as a treatment of severe hypoxemic focal lung lesions (CI) [Payen et al.], 1157
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- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
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- renal nerves are not involved in sodium and water retention during mechanical ventilation in awake dogs (LI) [Boemke et al.], 942
- Sasada and Smith, *Drugs in Anesthesia and Intensive Care, Second Edition* [Mark], 279
- Unknown, *Cardiopulmonary Critical Care, 3rd Edition* (EM) [MacGregor], 1610

Cryoablation

- cryoanalgesia: a novel treatment for hip adductor spasticity and obturator neuralgia (CR) [Kim and Ferrante], 534

Cyclic AMP and GMP

- acute depression of myocardial β -adrenergic receptor signaling during cardiopulmonary bypass: impairment of the adenylyl cyclase moiety (CI) [Booth et al.], 602
- differential effect of halothane and forskolin on platelet cytosolic Ca^{2+} mobilization and aggregation (LI) [Corbin et al.], 401
- dobutamine antagonizes epinephrine's biochemical and cardiotoxic effects: results of an *in vitro* model using human lymphocytes and a clinical study in patients recovering from cardiac surgery (CI) [Prielipp et al.], 49
- effects of halothane and isoflurane on β -adrenoceptor-mediated responses in the vascular smooth muscle of rat aorta (LI) [Tanaka and Tsuchida], 1209
- lack of correlation between the reduction of sevoflurane MAC and the cerebellar cyclic GMP concentrations in mice treated with 7-nitroindazole (LI) [Ichinose et al.], 143

Cyclooxygenase

- aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489

Cytokines

- effect of intravenous anesthetics on spontaneous and endotoxin-stimulated cytokine response in cultured human whole blood (LI) [Larsen et al.], 1218
- effects of mild perioperative hypothermia on cellular immune responses (CI) [Belin et al.], 1133

D**Dantrolene**

- secretion of dantrolene into breast milk after acute therapy of a suspected malignant hyperthermia crisis during cesarean section (CR) [Fricker et al.], 1023

ddN mice

- repetitive post-training exposure to enflurane modifies spatial memory in mice (LI) [Komatsu et al.], 1184

Depth of anesthesia

- aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489

- bispectral EEG index during nitric oxide administration (CI) [Rampil et al.], 671
- effect of isoflurane on the auditory steady-state response and on consciousness in human volunteers (CI) [Plourde et al.], 844
- skin vasomotor reflex as a measure of depth of anesthesia (CO) [Ezri et al.], 1281, [Shimoda], 1282
- Desflurane**
- antiemetic activity of propofol after sevoflurane and desflurane anesthesia for outpatient laparoscopic cholecystectomy (CI) [Song et al.], 838
- myocardial effects of desflurane in hamsters with hypertrophic cardiomyopathy (LI) [Vivien et al.], 1191
- non-thermoregulatory shivering in patients recovering from isoflurane or desflurane anesthesia (CI) [Horn et al.], 878
- Dexmedetomidine**
- dexmedetomidine produces similar alterations in the determinants of left ventricular afterload in conscious dogs before and after the development of pacing-induced cardiomyopathy (LI) [Pagel et al.], 741
- receptor-specific reversible sedation: beginning of new era of anesthesia? (EV) [Talker], 560
- reversal of the sedative and sympatholytic effects of dexmedetomidine with a specific α_2 -adrenoceptor antagonist atipamezole: a pharmacodynamic and kinetic study in healthy volunteers (CI) [Scheinen et al.], 574
- Diabetes mellitus**
- cerebrovascular CO₂ reactivity during anesthesia in patients with diabetes mellitus and peripheral vascular disease (CI) [Kawata et al.], 887
- Difficult airway**
- massive pyramidal tract signs after endotracheal intubation: a case report of spondyloepiphyseal dysplasia congenita (CR) [Redl], 1262
- Diphenhydramine**
- diphenhydramine increases ventilatory drive during alfentanil infusion (CI) [Babenco et al.], 642
- Disinfection**
- source of epidural infection following epidural analgesia identified by pulsed-field gel electrophoresis (CR) [Sakuragi et al.], 1254
- Dobutamine**
- dobutamine antagonizes epinephrine's biochemical and cardiotonic effects: results of an *in vitro* model using human lymphocytes and a clinical study in patients recovering from cardiac surgery (CI) [Prielipp et al.], 49
- Dose response**
- comparative clinical pharmacology of rocuronium, cisatracurium, and their combination (CI) [Naguib et al.], 1116
- high concentration cisatracurium ICU solution (CO) [Nishio et al.], 1605
- Double-lumen tubes**
- displacement of double-lumen tubes after patient positioning (CO) [Cheng et al.], 1282, [Klein and Karzai], 1283
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- illicit substance abuse *via* an implanted intrathecal pump (CR) [Burton et al.], 1264
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- interaction of intrathecally infused morphine and lidocaine in rats (part I): synergistic antinociceptive effects (LI) [Saito et al.], 1455
- interaction of intrathecally infused morphine and lidocaine in rats (part II): effects on the development of tolerance to morphine (LI) [Saito et al.], 1464
- isobolographic analysis of the interactions between midazolam and propofol at GABA_A receptors in embryonic mouse neurons (LI) [McAdam et al.], 1444
- Mueller and Lundberg, *Manual of Drug Interactions for Anesthesiology* (EM) [Sarathy and Cullen], 810
- pharmacodynamic interaction between propofol and fentanyl with respect to the suppression of somatic or hemodynamic responses to skin incision, peritoneum incision, and abdominal wall retraction (CI) [Kazama et al.], 894
- Drug metabolism**
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174
- Drug toxicity**
- assessment of teratogenic effects of lidocaine in rat embryos (LI) [Fujinaga], 1553
- effects of sevoflurane and isoflurane on renal function and on possible markers of nephrotoxicity (CI) [Higuchi et al.], 307
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174
- halothane-associated hepatitis in a 6-year-old boy: evidence for native liver regeneration following failed treatment with auxiliary liver transplantation (CR) [Munro et al.], 524
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- assessment of teratogenic effects of lidocaine in rat embryos (LI) [Fujinaga], 1553
- effect of epidural fentanyl on neonatal respiration (CI) [Porter et al.], 79

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- effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715
- thiopental inhibits increases in [Ca²⁺]_i induced by membrane depolarization, NMDA receptor activation, and ischemia in rat hippocampal and cortical slices (LI) [Zhan et al.], 456

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- effects of halothane and isoflurane on β -adrenoceptor-mediated responses in the vascular smooth muscle of rat aorta (LI) [Tanaka and Tsuchida], 1209
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- loon mitral valvotomy: report of six cases (CR) [Tempe et al.], 1583
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- from hypothermic cardiopulmonary bypass (CI) [Hänel et al.], 19
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- non-thermoregulatory shivering in patients recovering from isoflurane or desflurane anesthesia (CI) [Horn et al.], 878
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- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- diphenhydramine increases ventilatory drive during alfentanil infusion (CI) [Babenco et al.], 642
- effects of alfentanil on the ventilatory response to sustained hypoxia (CI) [Cartwright et al.], 612
- hypoxic apnea, epidural anesthesia, and infants (CO) [Gunter], 1285, [Hogan], 1286
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- treatment of pulmonary hypertension and hypoxia due to oleic acid induced lung injury with intrathecal prostaglandin E₁ during partial liquid ventilation (LI) [Nakazawa et al.], 686
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- intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493
- intrathecal sufentanil dose response in nulliparous patients (CI) [Arkoosh et al.], 364
- intrathecal sufentanil produces sensory changes without hypotension in male volunteers (CI) [Riley et al.], 73
- lumbosacral cerebrospinal fluid volume is the primary determinant of sensory block extent and duration during spinal anesthesia (CI) [Carpenter et al.], 24
- multi-center study of intrathecal neostigmine for analgesia following vaginal hysterectomy (CI) [Lauretti et al.], 913
- neurologic symptom associated with a repeated injection after failed spinal anesthesia (CO) [Hirabayashi et al.], 1294
- randomized study of combined spinal-epidural analgesia *versus* intravenous meperidine during labor: impact on cesarean delivery rate (CI) [Gambling et al.], 1336
- Streptococcus salivarius* meningitis after spinal anesthesia (CR) [Laurila et al.], 1579
- third degree heart block and asystole associated with spinal anesthesia (CR) [Jordi et al.], 257
- total spinal anesthesia following epidural saline injection after prolonged epidural anesthesia (CR) [Park et al.], 1267

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- transient neurologic symptoms when phenylephrine is added to tetracaine spinal anesthesia—an alternative (CO) [Rowlingson], 275, [Sakura and Drasner], 274, [Lambert], 274

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- quantitative EEG correlations with brain glucose metabolic rate during anesthesia in volunteers (CI) [Alkire], 323

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- post-transplant lymphoproliferative disease may present with severe airway obstruction (CR) [Hammer et al.], 263
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- effect of intravenous anesthetics on spontaneous and endotoxin-stimulated cytokine response in cultured human whole blood (LI) [Larsen et al.], 1218
- effects of mild perioperative hypothermia on cellular immune responses (CI) [Beilin et al.], 1133

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- post-transplant lymphoproliferative disease may present with severe airway obstruction (CR) [Hammer et al.], 263

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- anesthetic-induced alteration of Ca^{2+} homeostasis in neural cells: a temperature-sensitive process that is enhanced by blockade of plasma membrane Ca^{2+} -ATPase isoforms (LI) [Franks et al.], 149
- antiemetic activity of propofol after sevoflurane and desflurane anesthesia for outpatient laparoscopic cholecystectomy (CI) [Song et al.], 838
- aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489
- cerebellar nitric oxide is increased during isoflurane anesthesia compared to halothane anesthesia: a microdialysis study in rats (LI) [Loeb et al.], 723
- common genetic determinants of halothane and isoflurane potencies in *Caenorhabditis elegans* (LI) [van Swinderen et al.], 1509
- differential effect of halothane and forskolin on platelet cytosolic Ca^{2+} mobilization and aggregation (LI) [Corbin et al.], 401
- differential effects of anesthetic agents on outcome from near-complete but not incomplete global ischemia in the rat (LI) [Miura et al.], 391
- effects of halothane and isoflurane on β -adrenoceptor-mediated responses in the vascular smooth muscle of rat aorta (LI) [Tanaka and Tsuchida], 1209
- effects of sevoflurane and isoflurane on renal function and on possible markers of nephrotoxicity (CI) [Higuchi et al.], 307
- effects of sevoflurane on QT interval in a patient with congenital long QT syndrome (CR) [Gallagher et al.], 1569
- effects of volatile anesthetics on atrial and AV nodal electrophysiological properties in guinea pig isolated perfused heart (LI) [Pekka Raatikainen et al.], 434
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopyurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174
- halothane-associated hepatitis in a 6-year-old boy: evidence for native liver regeneration following failed treatment with auxiliary liver transplantation (CR) [Munro et al.], 524
- halothane attenuates calcium sensitization in airway smooth muscle by inhibiting G-proteins (LI) [Kai et al.], 1543
- intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125
- isoflurane and sevoflurane augment norepinephrine responses to surgical noxious stimulation in humans (CI) [Segawa et al.], 1407
- isoflurane and sevoflurane induce vasodilation of cerebral vessels *via* ATP-sensitive K^{+} channel activation (LI) [Iida et al.], 954
- local cerebral blood flow, local cerebral glucose utilization and flow-metabolism coupling during sevoflurane *versus* isoflurane anesthesia in rats (LI) [Lenz et al.], 1480
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- mechanistic aspects of carbon monoxide formation from volatile anesthetics (LI) [Baxter et al.], 929
- myocardial effects of desflurane in hamsters with hypertrophic cardiomyopathy (LI) [Vivien et al.], 1191
- recovery from sevoflurane anesthesia: a comparison to isoflurane and propofol anesthesia (LI) [Ebert et al.], 1524
- repetitive post-training exposure to enflurane modifies spatial memory in mice (LI) [Komatsu et al.], 1184
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- effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715
- interaction of intrathecally infused morphine and lidocaine in rats (part I): synergistic antinociceptive effects (LI) [Saito et al.], 1455
- interaction of intrathecally infused morphine and lidocaine in rats (part II): effects on the development of tolerance to morphine (LI) [Saito et al.], 1464
- intrathecal sufentanil dose response in nulliparous patients (CI) [Arkoosh et al.], 364
- intrathecal sufentanil produces sensory changes without hypotension in male volunteers (CI) [Riley et al.], 73
- role of spinal NO in antiallodynic effect of intrathecal clonidine in neuropathic rats (LI) [Pan et al.], 1518
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- cerebral blood flow and CO₂ reactivity is similar during remifentanyl/N₂O and fentanyl/N₂O anesthesia (CI) [Ostapovich et al.], 358
- differential effects of anesthetic agents on outcome from near-complete but not incomplete global ischemia in the rat (LI) [Miura et al.], 391
- effect of intravenous anesthetics on spontaneous and endotoxin-stimulated cytokine response in cultured human whole blood (LI) [Larsen et al.], 1218
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- nefircetam prevents propofol-induced anterograde and retrograde amnesia in the rodent without compromising quality of anesthesia (LI) [O'Gorman et al.], 699
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- prolonged loss of consciousness and elevated porphyrins following propofol administrations (CR) [Asirvatham et al.], 1029
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- quantitative EEG correlations with brain glucose metabolic rate during anesthesia in volunteers (CI) [Alkire], 323
- receptor-specific reversible sedation: beginning of new era of anesthesia? (EV) [Talke], 560
- spinal nitric oxide mediates antinociception from intravenous morphine (LI) [Song et al.], 215
- temperature of propofol does not reduce the incidence of injection pain (CO) [Ozturk et al.], 1041
- thiopental inhibits increases in [Ca²⁺]_i induced by membrane depolarization, NMDA receptor activation, and ischemia in rat hippocampal and cortical slices (LI) [Zhan et al.], 456
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- Intubation.** See also **Airway management; Endotracheal intubation**
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- Ions and ion channels.** See also **Calcium and calcium channels**
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- Isoflurane**
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- cardiovascular effects of xenon in isoflurane-anesthetized dogs with dilated cardiomyopathy (LI) [Hettrick et al.], 1166
- common genetic determinants of halothane and isoflurane potencies in *Caenorhabditis elegans* (LI) [van Swinderen et al.], 1509
- effects of halothane and isoflurane on β -adrenoceptor-mediated responses in the vascular smooth muscle of rat aorta (LI) [Tanaka and Tsuchida], 1209
- effects of sevoflurane and isoflurane on renal function and on possible markers of nephrotoxicity (CI) [Higuchi et al.], 307
- flow-induced dilation of rat coronary microvessels is attenuated by isoflurane but enhanced by halothane (LI) [Park et al.], 132
- intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125
- isoflurane and sevoflurane augment norepinephrine responses to surgical noxious stimulation in humans (CI) [Segawa et al.], 1407
- isoflurane and sevoflurane induce vasodilation of cerebral vessels *via* ATP-sensitive K⁺ channel activation (LI) [Iida et al.], 954
- isoflurane-induced dilation of porcine coronary arterioles is mediated by ATP-sensitive potassium channels (LI) [Zhou et al.], 182
- local cerebral blood flow, local cerebral glucose utilization and flow-metabolism coupling during sevoflurane *versus* isoflurane anesthesia in rats (LI) [Lenz et al.], 1480
- mechanisms of isoflurane-increased submaximum Ca²⁺-activated force in rabbit skinned femoral arterial strips (LI) [Toda and Su], 731
- non-thermoregulatory shivering in patients recovering from isoflurane or desflurane anesthesia (CI) [Horn et al.], 878
- paralysis only slightly reduces the febrile response to interleukin-2 during isoflurane anesthesia (CI) [Lanhardt et al.], 648
- recovery from sevoflurane anesthesia: a comparison to isoflurane and propofol anesthesia (LI) [Ebert et al.], 1524
- volatile anesthetic additivity and specificity in *Saccharomyces cerevisiae*: implications for yeast as a model system to study mechanisms of anesthetic action (LI) [Wolfe et al.], 174
- volatile anesthetics do not alter bradykinin-induced release of nitric oxide or L-citrulline in crystalloid perfused guinea pig hearts (LI) [Fujita et al.], 421

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effect of intravenous anesthetics on spontaneous and endotoxin-stimulated cytokine response in cultured human whole blood (LI) [Larsen et al.], 1218

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Flexiguide intubation guide to facilitate airway management with WuScope system (CO) [O'Neill et al.], 545

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Left ventricle

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- low-dose lidocaine suppresses experimentally induced hyperalgesia in humans (CI) [Koppert et al.], 1345
- lumbosacral cerebrospinal fluid volume is the primary determinant of sensory block extent and duration during spinal anesthesia (CI) [Carpenter et al.], 24
- Liver function and disease.** *See also* **Hepatic blood flow**
- halothane-associated hepatitis in a 6-year-old boy: evidence for native liver regeneration following failed treatment with auxiliary liver transplantation (CR) [Munro et al.], 524
- intravenous almitrine bimesylate reversibly induces lactic acidosis and hepatic dysfunction in patients with acute lung injury (CI) [B'chir et al.], 823
- Liver transplantation**
- halothane-associated hepatitis in a 6-year-old boy: evidence for native liver regeneration following failed treatment with auxiliary liver transplantation (CR) [Munro et al.], 524
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- bupivacaine 0.01% and/or epinephrine 0.5 μ g/ml improve epidural fentanyl analgesia after cesarean section (CI) [Cohen et al.], 1354
- combined intravenous lidocaine and inhaled salbutamol protect against bronchial hyperreactivity more effectively than lidocaine or salbutamol alone (CI) [Groeben et al.], 862
- Gary Strichartz: life among local anesthetics (SA) [Gelman], 820
- low-dose lidocaine suppresses experimentally induced hyperalgesia in humans (CI) [Koppert et al.], 1345
- prolonged intercostal nerve blockade in sheep using controlled-release of bupivacaine and dexamethasone from polymer microspheres (LI) [Dräger et al.], 969
- re-examination of tetrodotoxin for prolonged duration local anesthesia (LI) [Kohane et al.], 119
- sciatic nerve blockade in infant, adolescent, and adult rats: a comparison of ropivacaine and bupivacaine (LI) [Kohane et al.], 1199
- total spinal anesthesia following epidural saline injection after prolonged epidural anesthesia (CR) [Park et al.], 1267
- Low back pain**
- local addition of tenoxicam reduces the incidence of low back pain after lumbar epidural anesthesia (CI) [Wang et al.], 1414
- Lung, blood flow.** *See* **Pulmonary blood flow**
- Lung function and disease**
- additive effect of nitric oxide inhalation on the oxygenation benefit of the prone position in the adult respiratory distress syndrome (CI) [Germann et al.], 1401
- atelectasis and gas exchange after cardiac surgery (CI) [Tenling et al.], 371
- bronchospasm and "reflex right upper lobe atelectasis" (CO) [Sprung et al.], 803
- carotid body chemoreceptor function is impaired by vecuronium during hypoxia (LI) [Wyon et al.], 1471
- combined intravenous lidocaine and inhaled salbutamol protect against bronchial hyperreactivity more effectively than lidocaine or salbutamol alone (CI) [Groeben et al.], 862
- diphenhydramine increases ventilatory drive during alfentanil infusion (CI) [Babenco et al.], 642
- does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al.], 1089
- effects of alfentanil on the ventilatory response to sustained hypoxia (CI) [Cartwright et al.], 612
- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- exogenous surfactant preserves lung function and reduces alveolar Evans Blue dye influx in a rat model of ventilation-induced lung injury (LI) [Verbrugge et al.], 467
- halothane attenuates calcium sensitization in airway smooth muscle by inhibiting G-proteins (LI) [Kai et al.], 1543
- improvement in extreme hypoxemia during end-stage congenital heart disease using nasal nitric oxide (CR) [Cholley et al.], 1586
- inhaled nitric oxide, almitrine infusion, or their coadministration as a treatment of severe hypoxemic focal lung lesions (CI) [Payen et al.], 1157
- intermittent CPAP: a new mode of ventilation during general anesthesia (CI) [Bratzke et al.], 334
- intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125
- intravenous almitrine bimesylate reversibly induces lactic acidosis and hepatic dysfunction in patients with acute lung injury (CI) [B'chir et al.], 823
- phenylephrine and inhaled nitric oxide (CO) [Troncy and Blaise], 538, [Doering et al.], 539
- pulmonary blood flow does not redistribute in dogs with reposition from supine to left lateral position (LI) [Mure et al.], 483
- severe hypercapnia induced by acute dissecting aortic aneurysm (CR) [Lenfant et al.], 780
- temperature correction of the calculated alveolar oxygen tension (CO) [Habibzadeh and Yadollahie], 1042
- treatment of pulmonary hypertension and hypoxia due to oleic acid induced lung injury with intrathecal prostaglandin E_1 during partial liquid ventilation (LI) [Nakazawa et al.], 686
- Lung injury**
- exogenous surfactant preserves lung function and reduces alveolar Evans Blue dye influx in a rat model of ventilation-induced lung injury (LI) [Verbrugge et al.], 467
- hyperprolactinemia in patients with noninfectious SIRS and pulmonary dysfunction associated with cardiopulmonary bypass (CI) [Hensel et al.], 93
- pneumothorax during endoscopic extraperitoneal herniorrhaphy (CO) [Toyoshima et al.], 1040
- tension pneumothorax during apnea testing for the determination of brain death (CR) [Bar-Joseph et al.], 1250
- transfusion-related acute lung injury (TRALI) complicating colectomy for ulcerative colitis (CR) [Keifer et al.], 1020
- treatment of pulmonary hypertension and hypoxia due to oleic acid induced lung injury with intrathecal prostaglandin E_1 during partial liquid ventilation (LI) [Nakazawa et al.], 686
- Lungs.** *See* **Lung function and disease; Lung injury; Thoracic anesthesia**
- β -Lyase**
- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-pro-

pene (compound A)-derived mercaptopurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174

M

MAC. See **Minimum alveolar concentration**

Macrophage aggregation

intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125

Magnesium

magnesium and cardiovascular disease (MI) [Gomez], 222

Magnetic resonance imaging (MRI)

lumbar cerebrospinal fluid volume is the primary determinant of sensory block extent and duration during spinal anesthesia (CI) [Carpenter et al.], 24

Malignant hyperthermia

predicting malignant hyperthermia susceptibility (CO) [Allen], 797, [Fierobe], 798

secretion of dantrolene into breast milk after acute therapy of a suspected malignant hyperthermia crisis during cesarean section (CR) [Fricker et al.], 1023

treatment of normal skeletal muscle with FK506 or rapamycin results in halothane-induced muscle contracture (LI) [Brooks-bank et al.], 693

Mean transit time

blood volume measurement at the bedside using ICG pulse spectrophotometry (CI) [Haruna et al.], 1322

Mechanical ventilation

another cause of a prolonged downstroke in the capnograph (CO) [Ti and Dhara], 801

does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al.], 1089

intermittent CPAP: a new mode of ventilation during general anesthesia (CI) [Bratzke et al.], 334

renal nerves are not involved in sodium and water retention during mechanical ventilation in awake dogs (LI) [Boemke et al.], 942

Mechanisms of anesthesia

anesthetic-induced alteration of Ca^{2+} homeostasis in neural cells: a temperature-sensitive process that is enhanced by blockade of plasma membrane Ca^{2+} -ATPase isoforms (LI) [Franks et al.], 149

aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489

cerebellar nitric oxide is increased during isoflurane anesthesia compared to halothane anesthesia: a microdialysis study in rats (LI) [Loeb et al.], 723

common genetic determinants of halothane and isoflurane potencies in *Caenorhabditis elegans* (LI) [van Swinderen et al.], 1509

effect of isoflurane on the auditory steady-state response and on consciousness in human volunteers (CI) [Plourde et al.], 844

effects of intravenous general anesthetics on $[^3H]$ GABA release from rat cortical synaptosomes (LI) [Murugiah and Hemmings], 919

isobolographic analysis of the interactions between midazolam and propofol at GABA_A receptors in embryonic mouse neurons (LI) [McAdam et al.], 1444

quantitative EEG correlations with brain glucose metabolic rate during anesthesia in volunteers (CI) [Alkire], 323

volatile anesthetic additivity and specificity in *Saccharomyces cerevisiae*: implications for yeast as a model system to study mechanisms of anesthetic action (LI) [Wolfe et al.], 174

Medicolegal issues

effect of group discussion on interrater reliability of structured peer review (SA) [Levine et al.], 507

Meetings. See **Reports of scientific meetings**

Memory. See **Psychology, memory, and awareness**

Meninges, spinal. See **Spinal meninges**

Mental retardation

oral ketamine for the management of combative autistic adult (CO) [Bachenberg], 549

Meperidine

effects of meperidine and sufentanil on the shivering threshold of postoperative patients (CI) [Alfonsi et al.], 43

randomized study of combined spinal-epidural analgesia versus intravenous meperidine during labor: impact on cesarean delivery rate (CI) [Gambling et al.], 1336

Mercury

metallic mercury leak from the esophageal bougy and postoperative chest pain (CO) [Taylor and Kamaya], 548

Meta-analysis

recovery from sevoflurane anesthesia: a comparison to isoflurane and propofol anesthesia (LI) [Ebert et al.], 1524

Metabolism, drug. See **Drug metabolism**

Metformin

postoperative lactic acidosis in patients receiving metformin (CO) [Lustik et al.], 266

N-Methyl-D-aspartate

effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715

peripheral analgesic effects of ketamine in acute inflammatory pain (CI) [Pedersen et al.], 58

Methylmethacrylate cement

acute bronchospasm associated with methylmethacrylate cement (CO) [Nimmagadda and Salem], 1290

Microbicidal activity

intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125

Microdialysis

cerebellar nitric oxide is increased during isoflurane anesthesia compared to halothane anesthesia: a microdialysis study in rats (LI) [Loeb et al.], 723

Microspheres

prolonged intercostal nerve blockade in sheep using controlled-release of bupivacaine and dexamethasone from polymer microspheres (LI) [Dräger et al.], 969

Midazolam

isobolographic analysis of the interactions between midazolam and propofol at GABA_A receptors in embryonic mouse neurons (LI) [McAdam et al.], 1444

population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430

population pharmacokinetics of midazolam administered by target

- controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418
- post-anesthesia paradoxical vocal cord motion successfully treated with midazolam (CR) [Roberts et al.], 517
- Minimum alveolar concentration**
- aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489
- lack of correlation between the reduction of sevoflurane MAC and the cerebellar cyclic GMP concentrations in mice treated with 7-nitroindazole (LI) [Ichinose et al.], 143
- Mitral valve function and disease**
- early hemodynamic changes following emergency mitral valve replacement for traumatic mitral insufficiency following balloon mitral valvotomy: report of six cases (CR) [Tempe et al.], 1583
- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- Mivacurium**
- inhibition of the enzymic degradation of suxamethonium and mivacurium increases the onset time of submaximal neuromuscular block (LI) [Beaufort et al.], 707
- Models and modeling**
- assessment of clinical performance during simulated crises using both technical and behavioral ratings (CI) [Gaba et al.], 8
- dobutamine antagonizes epinephrine's biochemical and cardiotoxic effects: results of an *in vitro* model using human lymphocytes and a clinical study in patients recovering from cardiac surgery (CI) [Prielipp et al.], 49
- exogenous surfactant preserves lung function and reduces alveolar Evans Blue dye influx in a rat model of ventilation-induced lung injury (LI) [Verbrugge et al.], 467
- experimental determination of heat flow parameters during induction of general anesthesia (CI) [Sessler and Sessler], 657
- volatile anesthetic additivity and specificity in *Saccharomyces cerevisiae*: implications for yeast as a model system to study mechanisms of anesthetic action (LI) [Wolfe et al.], 174
- Monitoring**
- anesthesia for pediatric stereotactic radiosurgery (CR) [Bauman et al.], 255
- bispectral EEG index during nitric oxide administration (CI) [Rampil et al.], 671
- blood volume measurement: the next intraoperative monitor? (EV) [Barker], 1310
- circulating blood volume measured by pulse dye-densitometry: comparison with 131I-HSA analysis (CI) [Iijima et al.], 1329
- combined use of transesophageal echocardiography and basket catheter can prevent tumor embolism in a patient with renal cell carcinoma (CR) [Tanaka et al.], 1015
- comparison of left ventricular performance indices measured by transesophageal echocardiography with automated border detection (CI) [Declerk et al.], 341
- continuous cardiac output catheters: delay in *in vitro* response time after controlled flow changes (LR) [Aranda et al.], 1592
- EEGs, EEG processing, and the bispectral index (EV) [Todd], 815
- evoked potential monitoring and EKG: a case of a serious "cardiac arrhythmia" (CR) [Diachun et al.], 1270
- intraoperative determination of cardiac output using multiplane transesophageal echocardiography: a comparison to thermomodulation (CI) [Perrino et al.], 350
- method for measuring carbon dioxide at the tracheal stoma (CO) [Williams et al.], 799
- primer for EEG signal processing in anesthesia (RA) [Rampil], 980
- proposal for new temperature monitoring and thermal management guidelines (CO) [Sessler], 1298
- quantitative EEG correlations with brain glucose metabolic rate during anesthesia in volunteers (CI) [Alkire], 323
- systolic pressure variation as a guide to fluid therapy in patients with sepsis-induced hypotension (CI) [Tavernier et al.], 1313
- third degree heart block and asystole associated with spinal anesthesia (CR) [Jordi et al.], 257
- unreasonable low BIS values in a volunteer with genetically determined low voltage EEG (CO) [Schneider et al.], 1607
- Morphine**
- aspirin synergistically potentiates isoflurane minimum alveolar concentration reduction produced by morphine in the rat (LI) [Gomez de Segura et al.], 1489
- barrier properties of the spinal meninges are markedly decreased by freezing meningeal tissues (LR) [Thompson and Bernards], 1276
- differential effects of fentanyl and morphine on intracellular Ca^{2+} transients and contraction in rat ventricular myocytes (LI) [Kanay et al.], 1532
- effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715
- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- interaction of intrathecally infused morphine and lidocaine in rats (part II): effects on the development of tolerance to morphine (LI) [Saito et al.], 1464
- interaction of intrathecally infused morphine and lidocaine in rats (part I): synergistic antinociceptive effects (LI) [Saito et al.], 1455
- peripheral morphine administration blocks the development of hyperalgesia and allodynia after bone damage in the rat (LI) [Houghton et al.], 190
- spinal nitric oxide mediates antinociception from intravenous morphine (LI) [Song et al.], 215
- Mustard oil**
- intrathecal adenosine administration (CI) [Rane et al.], 1108
- Myocardial contractility**
- myocardial effects of desflurane in hamsters with hypertrophic cardiomyopathy (LI) [Vivien et al.], 1191
- thiopental alters contraction, intracellular Ca^{2+} , and pH in rat ventricular myocytes (LI) [Kanaya et al.], 202
- Myocardial infarction**
- predicting long-term postoperative cardiovascular outcomes (CO) [Litwack and DeGruttola], 1286, [Badner and Gelb], 1287, [Mangano], 1288
- spontaneous recovery after discontinuation of intraoperative cardiopulmonary resuscitation: case report (CR) [Frölich], 1252
- Myocardial ischemia**
- effects of atenolol on postoperative myocardial ischemia (CO) [Lusit et al.], 794
- effects of respiratory alkalosis and acidosis on myocardial blood flow

- and metabolism in patients with coronary artery disease (CI) [Kazmaier et al.], 831
- influence of collateral flow on the antegrade and retrograde distribution of cardioplegia in patients with an occluded right coronary artery (CI) [Aronson et al.], 1099
- magnesium and cardiovascular disease (MI) [Gomez], 222
- volatile anesthetics do not alter bradykinin-induced release of nitric oxide or L-citrulline in crystalloid perfused guinea pig hearts (LI) [Fujita et al.], 421

N

Nasogastric tube

- accidental intravascular placement of a feeding tube (CR) [Düthorn et al.], 251

Nausea, vomiting, and antiemetics

- antiemetic activity of propofol after sevoflurane and desflurane anesthesia for outpatient laparoscopic cholecystectomy (CI) [Song et al.], 838
- cerebrospinal fluid pharmacokinetics and pharmacodynamics of intrathecal neostigmine methylsulfate in humans (CI) [Shafer et al.], 1074

Nefiracetam

- nefiracetam prevents propofol-induced anterograde and retrograde amnesia in the rodent without compromising quality of anesthesia (LI) [O'Gorman et al.], 699

Nematodes

- common genetic determinants of halothane and isoflurane potencies in *Caenorhabditis elegans* (LI) [van Swinderen et al.], 1509

Neostigmine

- cerebrospinal fluid pharmacokinetics and pharmacodynamics of intrathecal neostigmine methylsulfate in humans (CI) [Shafer et al.], 1074
- intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493
- multi-center study of intrathecal neostigmine for analgesia following vaginal hysterectomy (CI) [Lauretti et al.], 913

Nephrotoxicity

- fate and toxicity of 2-(fluoromethoxy)-1,1,3,3,3-pentafluoro-1-propene (compound A)-derived mercaptopyurates in male Fischer 344 rats (LI) [Uttamsingh et al.], 1174

Nerve blocks. See also Local anesthesia and anesthetics; Regional anesthesia safety, outcomes, and prospective study design (CO) [Price and Carpenter], 790, [Auroy et al.], 791

- bowing of the needle technique for nerve block (CO) [Kirkpatrick et al.], 1606

- the centennial of spinal anesthesia (SA) [Wulf], 500
- cryoanalgesia: a novel treatment for hip adductor spasticity and obturator neuralgia (CR) [Kim and Ferrante], 534

- dose-dependent reduction of the minimum local anesthetic concentration of bupivacaine by sufentanil for epidural analgesia in labor (CI) [Polley et al.], 626

- prolonged intercostal nerve blockade in sheep using controlled-release of bupivacaine and dexamethasone from polymer microspheres (LI) [Dräger et al.], 969

- prospective, randomized comparison of deep or superficial cervical plexus block for carotid endarterectomy surgery (CI) [Stoneham et al.], 907

- sciatic nerve blockade in infant, adolescent, and adult rats: a comparison of ropivacaine and bupivacaine (LI) [Kohane et al.], 1199

- source of epidural infection following epidural analgesia identified by pulsed-field gel electrophoresis (CR) [Sakuragi et al.], 1254
- Streptococcus salivarius* meningitis after spinal anesthesia (CR) [Laurila et al.], 1579

- there is no golden yardstick (CO) [Erjavec], 788

- total spinal anesthesia following epidural saline injection after prolonged epidural anesthesia (CR) [Park et al.], 1267

- transient neurologic symptoms after spinal anesthesia: an epidemiologic study of 1,863 patients (CI) [Freedman et al.], 633

- transient neurologic symptoms when phenylephrine is added to tetracaine spinal anesthesia—an alternative (CO) [Lambert], 274, [Sakura and Drasner], 274, [Rowlingson], 275

Neurological injury

- Abrams and Grande (eds.), *Trauma Anesthesia and Critical Care of Neurological Injury* (EM) [Pittet], 1301

Neurologic complications

- is phenylephrine or sodium bisulfite neurotoxic? (CO) [Tanaka and Nishikawa], 272

- neurologic symptom associated with a repeated injection after failed spinal anesthesia (CO) [Hirabayashi et al.], 1294

- transient neurologic symptoms after spinal anesthesia: an epidemiologic study of 1,863 patients (CI) [Freedman et al.], 633

- transient neurologic symptoms when phenylephrine is added to tetracaine spinal anesthesia—an alternative (CO) [Sakura and Drasner], 274, [Rowlingson], 275, [Lambert], 274

Neuromuscular transmission and blockade

- carotid body chemoreceptor function is impaired by vecuronium during hypoxia (LI) [Wyon et al.], 1471

- comparative clinical pharmacology of rocuronium, cisatracurium, and their combination (CI) [Naguib et al.], 1116

- high concentration cisatracurium ICU solution (CO) [Nishio et al.], 1605

- implementation of pharmaceutical practice guidelines—once again (CO) [Viby-Mogensen], 268

- inhibition of the enzymic degradation of suxamethonium and mivacurium increases the onset time of submaximal neuromuscular block (LI) [Beaufort et al.], 707

- paralysis only slightly reduces the febrile response to interleukin-2 during isoflurane anesthesia (CI) [Lanhardt et al.], 648

- pharmaceutical practice guidelines: do they actually cost money? (CO) [Fisher and Kelley], 269, [Lubarsky], 270

- potential cause for medication administration error (CO) [Donahue and Needleman], 800

Neuronal electrophysiology

- thiopental inhibits increases in $[Ca^{2+}]_i$ induced by membrane depolarization, NMDA receptor activation, and ischemia in rat hippocampal and cortical slices (LI) [Zhan et al.], 456

Neuropathic pain

- intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493

Neuroprotection

- anesthetic agents and hypothermia in ischemic brain protection (EV) [Bhardwaj and Kirsch], 289

Neurosurgical anesthesia

- cerebral blood flow and CO₂ reactivity is similar during remifentanyl/

- N_2O and fentanyl/ N_2O anesthesia (CI) [Ostapkovich et al., 358]
- cerebrovascular CO_2 reactivity during anesthesia in patients with diabetes mellitus and peripheral vascular disease (CI) [Kawata et al., 887]
- Cottrell and Hartung (eds.), *Journal of Neurosurgical Anesthesiology* (EM) [Sperry], 278
- pituitary apoplexy following mitral valve repair (CR) [Meek et al., 1580]
- prospective, randomized comparison of deep or superficial cervical plexus block for carotid endarterectomy surgery (CI) [Stoneham et al., 907]
- Neutrophils**
- nitric oxide inhibits neutrophil adhesion during experimental extracorporeal circulation (LI) [Chello et al., 443]
- Nitric oxide and nitric oxide synthase**
- bispectral EEG index during nitric oxide administration (CI) [Rampil et al., 671]
- cerebellar nitric oxide is increased during isoflurane anesthesia compared to halothane anesthesia: a microdialysis study in rats (LI) [Loeb et al., 723]
- flow-induced dilation of rat coronary microvessels is attenuated by isoflurane but enhanced by halothane (LI) [Park et al., 132]
- lack of correlation between the reduction of sevoflurane MAC and the cerebellar cyclic GMP concentrations in mice treated with 7-nitroindazole (LI) [Ichinose et al., 143]
- nitric oxide inhibits neutrophil adhesion during experimental extracorporeal circulation (LI) [Chello et al., 443]
- role of spinal NO in antiallodynic effect of intrathecal clonidine in neuropathic rats (LI) [Pan et al., 1518]
- spinal nitric oxide mediates antinociception from intravenous morphine (LI) [Song et al., 215]
- volatile anesthetics do not alter bradykinin-induced release of nitric oxide or L-citrulline in crystalloid perfused guinea pig hearts (LI) [Fujita et al., 421]
- Nitric oxide inhalation**
- additive effect of nitric oxide inhalation on the oxygenation benefit of the prone position in the adult respiratory distress syndrome (CI) [Germann et al., 1401]
- does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al., 1089]
- improvement in extreme hypoxemia during end-stage congenital heart disease using nasal nitric oxide (CR) [Cholley et al., 1586]
- inhaled nitric oxide, almitrine infusion, or their coadministration as a treatment of severe hypoxemic focal lung lesions (CI) [Payen et al., 1157]
- phenylephrine and inhaled nitric oxide (CO) [Troncy and Blaise], 538, [Doering et al., 539]
- 7-Nitroindazole**
- lack of correlation between the reduction of sevoflurane MAC and the cerebellar cyclic GMP concentrations in mice treated with 7-nitroindazole (LI) [Ichinose et al., 143]
- Nitrous oxide**
- cerebral blood flow and CO_2 reactivity is similar during remifentanyl/ N_2O and fentanyl/ N_2O anesthesia (CI) [Ostapkovich et al., 358]
- population pharmacodynamics and pharmacokinetics of remifentanyl as a supplement to nitrous oxide anesthesia for elective abdominal surgery (CI) [Drover and Lemmens], 869
- NMDA.** See *N-Methyl-D-aspartate*
- Nociception.** See also **Antinociception**
- AMPA/kainate antagonist LY293558 reduces capsaicin-evoked hyperalgesia but not pain in normal skin in humans (CI) [Sang et al., 1060]
- Nonlinear regression**
- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al., 1430]
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al., 1418]
- Nonsteroidal anti-inflammatory drugs**
- local addition of tenoxicam reduces the incidence of low back pain after lumbar epidural anesthesia (CI) [Wang et al., 1414]
- peripherally administered NSAIDs provide for patient benefit (CO) [Connelly and Reuben], 276
- Norepinephrine**
- does norepinephrine modify the effects of inhaled nitric oxide in septic patients with acute respiratory distress syndrome? (CI) [Papazian et al., 1089]
- impact of systemic vasoconstrictors on the cerebral circulation of anesthetized patients (CI) [Strebel et al., 67]
- spinal nitric oxide mediates antinociception from intravenous morphine (LI) [Song et al., 215]
- NSAIDs.** See **Nonsteroidal anti-inflammatory drugs**
- Nucleosides**
- intrathecal adenosine administration (CI) [Rane et al., 1108]
- O**
- Obesity**
- does size matter? (EV) [Bouillon and Shafer], 557
- remifentanyl pharmacokinetics in obese versus lean patients (CI) [Egan et al., 562]
- Obstetric anesthesia**
- anesthesia for cesarean section in a pituitary dwarf (CR) [Ratner and Hamilton], 253
- bupivacaine 0.01% and/or epinephrine 0.5 μ g/ml improve epidural fentanyl analgesia after cesarean section (CI) [Cohen et al., 1354]
- does anesthesiology, like history, repeat itself? (CO) [Eisenach and D'Angelo], 542, [Joos and Van Steenberghe], 542
- dose-dependent reduction of the minimum local analgesic concentration of bupivacaine by sufentanil for epidural analgesia in labor (CI) [Polley et al., 626]
- effect of adding a minidose of clonidine to intrathecal sufentanil for labor analgesia (CI) [Mercier et al., 594]
- effect of epidural fentanyl on neonatal respiration (CI) [Porter et al., 79]
- EXIT procedure facilitates delivery of an infant with a pretracheal teratoma (CR) [Shih et al., 1573]
- intrathecal sufentanil dose response in nulliparous patients (CI) [Arkoosh et al., 364]
- intrathecal sufentanil produces sensory changes without hypotension in male volunteers (CI) [Riley et al., 73]
- obstetric anesthesia 1988-1996 in Northrhine/Germany: results of

- the perinatal survey at the chambers of physicians (CO) [Josten et al.], 1288
- obstetric postanesthesia care unit stays: reevaluation of discharge criteria after regional anesthesia (EA) [Cohen et al.], 1557
- randomized study of combined spinal-epidural analgesia *versus* intravenous meperidine during labor: impact on cesarean delivery rate (CI) [Gambling et al.], 1336
- total spinal anesthesia following epidural saline injection after prolonged epidural anesthesia (CR) [Park et al.], 1267
- value of presenting the time-course of pain relief in analgesic trials (CO) [Goudas and Carr], 1602
- Obstruction, airway. See Airway management**
- Operating room**
- method to assist in the scheduling of add-on surgical cases—upper prediction bounds for surgical case durations based on the log-normal distribution (EA) [Zhou and Dexter], 1228
- rare cause of fire in the operating room (CO) [Ortega], 1608
- Opioids**
- anesthetic agents and hypothermia in ischemic brain protection (EV) [Bhardwaj and Kirsch], 289
- barrier properties of the spinal meninges are markedly decreased by freezing meningeal tissues (LR) [Thompson and Bernards], 1276
- cerebral blood flow and CO₂ reactivity is similar during remifentanyl/N₂O and fentanyl/N₂O anesthesia (CI) [Ostapovich et al.], 358
- concentration-response relationships for fentanyl and sufentanil in patients undergoing coronary artery bypass grafting (CI) [Thomson et al.], 852
- differential effects of anesthetic agents on outcome from near-complete but not incomplete global ischemia in the rat (LI) [Miura et al.], 391
- differential effects of fentanyl and morphine on intracellular Ca²⁺ transients and contraction in rat ventricular myocytes (LI) [Kanay et al.], 1532
- diphenhydramine increases ventilatory drive during alfentanil infusion (CI) [Babenco et al.], 642
- does size matter? (EV) [Bouillon and Shafer], 557
- dose-dependent reduction of the minimum local analgesic concentration of bupivacaine by sufentanil for epidural analgesia in labor (CI) [Polley et al.], 626
- effect of adding a minidose of clonidine to intrathecal sufentanil for labor analgesia (CI) [Mercier et al.], 594
- effect of epidural fentanyl on neonatal respiration (CI) [Porter et al.], 79
- effect of intravenous anesthetics on spontaneous and endotoxin-stimulated cytokine response in cultured human whole blood (LI) [Larsen et al.], 1218
- effects of alfentanil on the ventilatory response to sustained hypoxia (CI) [Cartwright et al.], 612
- effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715
- effects of meperidine and sufentanil on the shivering threshold of postoperative patients (CI) [Alfonsi et al.], 43
- efficacy and costs of patient-controlled analgesia *versus* regularly administered intramuscular opioid therapy (CI) [Choinière et al.], 1377
- illicit substance abuse *via* an implanted intrathecal pump (CR) [Burton et al.], 1264
- interaction of intrathecally infused morphine and lidocaine in rats (part I): synergistic antinociceptive effects (LI) [Saito et al.], 1455
- interaction of intrathecally infused morphine and lidocaine in rats (part II): effects on the development of tolerance to morphine (LI) [Saito et al.], 1464
- intrathecal sufentanil dose response in nulliparous patients (CI) [Arkoosh et al.], 364
- intrathecal sufentanil produces sensory changes without hypotension in male volunteers (CI) [Riley et al.], 73
- peripheral morphine administration blocks the development of hyperalgesia and allodynia after bone damage in the rat (LI) [Houghton et al.], 190
- pharmacodynamic interaction between propofol and fentanyl with respect to the suppression of somatic or hemodynamic responses to skin incision, peritoneum incision, and abdominal wall retraction (CI) [Kazama et al.], 894
- population pharmacodynamics and pharmacokinetics of remifentanyl as a supplement to nitrous oxide anesthesia for elective abdominal surgery (CI) [Drover and Lemmens], 869
- remifentanyl pharmacokinetics in obese *versus* lean patients (CI) [Egan et al.], 562
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
- small doses of sufentanil will produce violent coughing in young children (CO) [Bennett et al.], 272, [Yemen], 271
- spinal nitric oxide mediates antinociception from intravenous morphine (LI) [Song et al.], 215
- transnasal butorphanol is effective for postoperative pain relief in children undergoing myringotomy (CI) [Bennie et al.], 385
- Orthopedic surgery**
- acute bronchospasm associated with methylmethacrylate cement (CO) [Nimmagadda and Salem], 1290
- the blood sparing effect of aprotinin should be revisited (CO) [Lentschener and Benhamou], 1598
- fatal pulmonary fat embolism in early postoperative period (CR) [Heine et al.], 1589
- Ostwald partition coefficient**
- partition coefficients of volatile anesthetics in aqueous electrolyte solutions at various temperatures (LR) [Hönemann et al.], 1032
- Outcomes**
- predicting long-term postoperative cardiovascular outcomes (CO) [Litwack and DeGruttola], 1286, [Badner and Gelb], 1287, [Mangano], 1288
- Oxygen and oxygen transport**
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- choice of α -stat or pH-stat management and neurologic outcomes after cardiac surgery: it depends (EV) [Hindman], 5
- comparison of pH-stat and alpha-stat cardiopulmonary bypass on cerebral oxygenation and blood flow in relation to hypothermic circulatory arrest in piglets (LI) [Kurth et al.], 110
- inhaled nitric oxide, almitrine infusion, or their coadministration as a treatment of severe hypoxemic focal lung lesions (CI) [Payen et al.], 1157
- jugular venous hemoglobin desaturation during rewarming on car-

- diopulmonary bypass: what does it mean, what does it matter? (EV) [Hindman], 3
- temperature correction of the calculated alveolar oxygen tension (CO) [Habibzadeh and Yadollahie], 1042
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- external chest wall stimulation to suppress a permanent transvenous pacemaker in a patient during endovascular stent graft placement (CR) [Moskowitz et al.], 531

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- AMPA/kainate antagonist LY293558 reduces capsaicin-evoked hyperalgesia but not pain in normal skin in humans (CI) [Sang et al.], 1060
- AMPA/kainate receptor antagonists as novel analgesic agents (EV) [Brennan], 1049
- low-dose lidocaine suppresses experimentally induced hyperalgesia in humans (CI) [Koppert et al.], 1345
- Worldwide Congress on Pain* (WS) [Cusick], 1304

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- AMPA/kainate antagonist LY293558 reduces capsaicin-evoked hyperalgesia but not pain in normal skin in humans (CI) [Sang et al.], 1060
- bowing of the needle technique for nerve block (CO) [Kirkpatrick et al.], 1606
- bupivacaine 0.01% and/or epinephrine 0.5 µg/ml improve epidural fentanyl analgesia after cesarean section (CI) [Cohen et al.], 1354
- cryoanalgesia: a novel treatment for hip adductor spasticity and obturator neuralgia (CR) [Kim and Ferrante], 534
- Diamond and Coniam (eds.), *The Management of Chronic Pain—Second Edition* (EM) [Crews], 809
- effect of adding a minidose of clonidine to intrathecal sufentanil for labor analgesia (CI) [Mercier et al.], 594
- efficacy and costs of patient-controlled analgesia *versus* regularly administered intramuscular opioid therapy (CI) [Choinière et al.], 1377
- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- epigastric antinociception by cervical dorsal column lesions in rats (LI) [Feng et al.], 411
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- illicit substance abuse *via* an implanted intrathecal pump (CR) [Burton et al.], 1264
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- intrathecal adenosine administration (CI) [Rane et al.], 1108
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- multi-center study of intrathecal neostigmine for analgesia following vaginal hysterectomy (CI) [Lauretti et al.], 913
- peripheral analgesic effects of ketamine in acute inflammatory pain (CI) [Pedersen et al.], 58
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- peripheral morphine administration blocks the development of hyperalgesia and allodynia after bone damage in the rat (LI) [Houghton et al.], 190
- postoperative acetaminophen and warfarin: undesirable combination (CO) [Elias], 1296
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- randomized study of combined spinal-epidural analgesia *versus* intravenous meperidine during labor: impact on cesarean delivery rate (CI) [Gambling et al.], 1336
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
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- transnasal butorphanol is effective for postoperative pain relief in children undergoing myringotomy (CI) [Bennie et al.], 385
- Unknown, *The Management of Pain* (EM) [Lauretti], 1610

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- AMPA/kainate antagonist LY293558 reduces capsaicin-evoked hyperalgesia but not pain in normal skin in humans (CI) [Sang et al.], 1060
- intrathecal adenosine administration (CI) [Rane et al.], 1108
- temperature of propofol does not reduce the incidence of injection pain (CO) [Ozturk et al.], 1041

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- AMPA/kainate antagonist LY293558 reduces capsaicin-evoked hyperalgesia but not pain in normal skin in humans (CI) [Sang et al.], 1060
- effects of intrathecal NMDA and non-NMDA antagonists on acute thermal nociception and their interaction with morphine (LI) [Nishiyama et al.], 715
- epigastric antinociception by cervical dorsal column lesions in rats (LI) [Feng et al.], 411
- interaction of intrathecally infused morphine and lidocaine in rats (part I): synergistic antinociceptive effects (LI) [Saito et al.], 1455
- interaction of intrathecally infused morphine and lidocaine in rats (part II): effects on the development of tolerance to morphine (LI) [Saito et al.], 1464
- intrathecal adenosine administration (CI) [Rane et al.], 1108
- intrathecal neostigmine, but not sympathectomy, relieves mechanical allodynia in a rat model of neuropathic pain (LI) [Lavand'homme et al.], 493
- local addition of tenoxicam reduces the incidence of low back pain after lumbar epidural anesthesia (CI) [Wang et al.], 1414
- low-dose lidocaine suppresses experimentally induced hyperalgesia in humans (CI) [Koppert et al.], 1345

- role of spinal NO in antiallodynic effect of intrathecal clonidine in neuropathic rats (LI) [Pan et al.], 1518
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- implementation of pharmaceutical practice guidelines—once again (CO) [Viby-Mogensen], 268
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- multicenter study of contaminated percutaneous injuries in anesthesia personnel (CI) [Greene et al.], 1362
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- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
- Pediatric anesthesia**
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- comparison of the respiratory effects of sevoflurane and halothane in infants and young children (CI) [Brown et al.], 86
- create a party mood for a smooth anesthetic induction of children (CO) [Thiagarajah and Thiagarajah], 802
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- massive pyramidal tract signs after endotracheal intubation: a case report of spondyloepiphyseal dysplasia congenita (CR) [Redl], 1262
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- parental presence during induction of anesthesia *versus* sedative premedication: which intervention is more effective? (CI) [Kain et al.], 1147
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- pressure-guided method for identification of the epidural space in children (CO) [Suwa et al.], 546
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- replacement of air by carbon dioxide (CO) [Rosen], 1036, [O'Brien], 1036
- single-breath vital capacity rapid inhalation induction in children: 8% sevoflurane *versus* 5% halothane (CI) [Agnor et al.], 379
- small doses of sufentanil will produce violent coughing in young children (CO) [Yemen], 271, [Bennett et al.], 272
- transnasal butorphanol is effective for postoperative pain relief in children undergoing myringotomy (CI) [Bennie et al.], 385
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- Perfusion pressure**
- effect of various lithotomy positions on lower-extremity blood pressure (CI) [Halliwill et al.], 1373
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- Pharmacokinetics and pharmacodynamics**
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- concentration-response relationships for fentanyl and sufentanil in patients undergoing coronary artery bypass grafting (CI) [Thomson et al.], 852
- diphenhydramine increases ventilatory drive during alfentanil infusion (CI) [Babenco et al.], 642
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- effects of alfentanil on the ventilatory response to sustained hypoxia (CI) [Cartwright et al.], 612
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- inhibition of the enzymic degradation of suxamethonium and mivacurium increases the onset time of submaximal neuromuscular block (LI) [Beaufort et al.], 707
- pharmacodynamic interaction between propofol and fentanyl with respect to the suppression of somatic or hemodynamic responses to skin incision, peritoneum incision, and abdominal wall retraction (CI) [Kazama et al.], 894
- population pharmacodynamics and pharmacokinetics of remifentanyl as a supplement to nitrous oxide anesthesia for elective abdominal surgery (CI) [Drover and Lemmens], 869
- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
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- remifentanyl pharmacokinetics in obese *versus* lean patients (CI) [Egan et al.], 562
- reversal of the sedative and sympatholytic effects of dexmedetomidine with a specific α_2 -adrenoceptor antagonist atipamezole: a pharmacodynamic and kinetic study in healthy volunteers (CI) [Scheinen et al.], 574
- Pharmacology**
- comparative clinical pharmacology of rocuronium, cisatracurium, and their combination (CI) [Naguib et al.], 1116
- high concentration cisatracurium ICU solution (CO) [Nishio et al.], 1605
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- oral ketamine for the management of combative autistic adult (CO) [Bachenberg], 549
- Phenylephrine**
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- is phenylephrine or sodium bisulfite neurotoxic? (CO) [Tanaka and Nishikawa], 272
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- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- Plasma disappearance rate**
- blood volume measurement at the bedside using ICG pulse spectrophotometry (CI) [Haruna et al.], 1322
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- Politics and publishing**
- medical information on the Internet (SA) [Rampil], 1233
- Population modeling**
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- population pharmacodynamics of midazolam administered by target controlled infusion in SICU patients after CABG surgery (CI) [Somma et al.], 1430
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418
- Porphyria**
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- Positioning**
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- effect of various lithotomy positions on lower-extremity blood pressure (CI) [Halliwill et al.], 1373
- pulmonary blood flow does not redistribute in dogs with reposition from supine to left lateral position (LI) [Mure et al.], 483
- Positive end-expiratory pressure**
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- renal nerves are not involved in sodium and water retention during mechanical ventilation in awake dogs (LI) [Boemke et al.], 942
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- Positron emission tomography (PET) scanning**
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- antiemetic activity of propofol after sevoflurane and desflurane anesthesia for outpatient laparoscopic cholecystectomy (CI) [Song et al.], 838
- atelectasis and gas exchange after cardiac surgery (CI) [Tenling et al.], 371
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- epidural bupivacaine-morphine analgesia *versus* patient-controlled analgesia following abdominal aortic surgery: analgesic, respiratory, and myocardial effects (CI) [Boylan et al.], 585
- fatal pulmonary fat embolism in early postoperative period (CR) [Heine et al.], 1589
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- obstetric postanesthesia care unit stays: reevaluation of discharge criteria after regional anesthesia (EA) [Cohen et al.], 1557

- pharmaceutical practice guidelines: do they actually *cost* money? (CO) [Fisher and Kelley], 269, [Lubarsky], 270
- recovery from sevoflurane anesthesia: a comparison to isoflurane and propofol anesthesia (LI) [Ebert et al.], 1524
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
- successful perioperative management of a patient with Parkinson's disease by enteral levodopa administration under propofol anesthesia (CR) [Furuya et al.], 261
- Postoperative complications**
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- pituitary apoplexy following mitral valve repair (CR) [Meek et al.], 1580
- postoperative acetaminophen and warfarin: undesirable combination (CO) [Elias], 1296
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- Potassium and potassium channels**
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- parental presence during induction of anesthesia *versus* sedative premedication: which intervention is more effective? (CI) [Kain et al.], 1147
- population pharmacokinetics of midazolam administered by target controlled infusion for sedation following coronary artery bypass grafting (CI) [Zomorodi et al.], 1418
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
- Preoperative assessment and care**
- parental presence during induction of anesthesia *versus* sedative premedication: which intervention is more effective? (CI) [Kain et al.], 1147
- Propofol**
- antiemetic activity of propofol after sevoflurane and desflurane anesthesia for outpatient laparoscopic cholecystectomy (CI) [Song et al.], 838
- effect of propofol on isolated human pregnant uterine muscle (CI) [Shin et al.], 105
- formulation-dependent brain and lung distribution kinetics of propofol in rats (LI) [Dutta and Ebling], 678
- incompatibility of propofol emulsion with anesthetic drugs (CO) [Lamontagne et al.], 1609
- intraoperative modulation of alveolar macrophage function during isoflurane and propofol anesthesia (CI) [Kotani et al.], 1125
- is lack of statistical power always evidence of lack of effect? (CO) [Tommasino], 798, [Warner and Dexter], 799
- isobolographic analysis of the interactions between midazolam and propofol at GABA_A receptors in embryonic mouse neurons (LI) [McAdam et al.], 1444
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- prolonged loss of consciousness and elevated porphyrins following propofol administrations (CR) [Asirvatham et al.], 1029
- propofol-induced increase in vascular capacitance is due to inhibition of sympathetic vasoconstrictive activity (LI) [Hoka et al.], 1495
- recovery from sevoflurane anesthesia: a comparison to isoflurane and propofol anesthesia (LI) [Ebert et al.], 1524
- sedative and analgesic sparing effect of music (CI) [Koch et al.], 300
- successful perioperative management of a patient with Parkinson's disease by enteral levodopa administration under propofol anesthesia (CR) [Furuya et al.], 261
- temperature of propofol does not reduce the incidence of injection pain (CO) [Ozturk et al.], 1041
- Prostaglandins**
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- effect of isoflurane on the auditory steady-state response and on consciousness in human volunteers (CI) [Plourde et al.], 844
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- nefircetam prevents propofol-induced anterograde and retrograde amnesia in the rodent without compromising quality of anesthesia (LI) [O'Gorman et al.], 699
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- Pulmonary blood flow**
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exogenous surfactant preserves lung function and reduces alveolar Evans Blue dye influx in a rat model of ventilation-induced lung injury (LI) [Verbrugge et al.], 467

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